

Electric Generating Unit Standard Permit Technical Review

Company	Abilene Dc 1, LLC	Registration Number	177263
City	Abilene	Project Number	387309
County	Taylor	Regulated Entity Number	RN112029079
Project Type	Standard Permit Application	Customer Reference Number	CN606295137
Project Reviewer	Amanda Andrews	Project Received Date	January 11, 2025
Site Name	Longhorn Data Center		

Project Description
<p>Abilene DC 1, LLC (Abilene DC) dba Crusoe Energy Systems, LLC (Crusoe), has submitted the following modification application for a standard permit for electric generating units for the Longhorn Data Center in Abilene within Taylor County, Texas. The electric generating units are currently permitted under Standard Permit Registration 177263. The following changes to the standard permit for electric generating units are proposed with this modification:</p> <ul style="list-style-type: none"> • Reduce the count of Titan 350 simple-cycle turbines from six to five and increase the site-rated power to 38 MW per turbine • Reduce the count of GE LM2500 simple-cycle turbines from six to five, reduce the site-rated power to 34.1 MW per turbine, and increase the annual hours of operation from 5,880 hours to 8,760 hours per turbine. <p>The purpose of the equipment is to generate power for onsite use only for data centers and computing. Abilene DC will obtain a Title V permit as applicable for the site.</p>

Compliance History Evaluation	
A compliance history report was reviewed on:	January 15, 2025
Site rating & classification:	Unclassified
Company rating & classification:	Unclassified

General Rules Check	Comments
Does the project trigger PSD or NA review?	* No
Is the facility taking an operational limit to meet the Standard Permit? If yes, describe how this project is not circumventing major NSR permitting. (30 TAC §116.110)	* No

Standard Permit Rules Check	Comments
Type of unit being authorized	*Turbine(s)
Fees	* ≥ 1 MW \$900
Combined Heat and Power (if taking credit)	NA
Fuel	* Natural gas (<10 grains total sulfur per 100 dscf)
NO _x emission limitation (in lb/MWh)	* West Texas * >10 MW per unit * >300 hrs/yr – 0.14 lb/MWhr
Maintenance, Startup, and Shutdown	Maintenance activities will be authorized either by PBR or De Minimis. Emissions from planned startup and shutdown will be authorized by this permit. Combustion emission factors used when developing the standard permit included enough conservatism to account for incidental increases that could occur during startup and shutdown.

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Amanda Andrews

January 21, 2025

Michael Partee

January 22, 2025

Project Reviewer
Amanda Andrews

Date

Section Manager
Michael Partee

Date